



\*\*\* Announcing DAVID 6.8 Beta with updated Knowledgebase ([more info](#)). You may explore the new version at [david-ncifcrf.gov](http://david.ncifcrf.gov). \*\*\* DAVID 6.8 will become the production version on October 17, 2016 at this URL. DAVID 6.7 will be available on our development site until at least January 15, 2017. \*\*\*

## Functional Annotation Clustering

[Help and Manual](#)
**Current Gene List:** List\_1

**Current Background:** Homo sapiens

**391 DAVID IDs**

<b>Options</b>	<b>Classification Stringency</b>	High	
<input type="button" value="Rerun using options"/>		<input type="button" value="Create Sublist"/>	

**118 Cluster(s)**
 [Download File](#)

		Enrichment Score: 6.89		G					
				RT		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">proteolysis involved in cellular protein catabolic process</a>	RT			37	1.1E-8	1.8E-5	1.9E-5
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">cellular protein catabolic process</a>	RT			37	1.3E-8	1.0E-5	2.2E-5
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">protein catabolic process</a>	RT			37	2.9E-8	1.5E-5	4.8E-5
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">modification-dependent protein catabolic process</a>	RT			35	4.1E-8	1.6E-5	6.9E-5
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">modification-dependent macromolecule catabolic process</a>	RT			35	4.1E-8	1.6E-5	6.9E-5
<input type="checkbox"/>	<a href="#">SP_PIR_KEYWORDS</a>	<a href="#">ubl conjugation pathway</a>	RT			31	1.0E-7	1.2E-5	1.4E-4
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">cellular macromolecule catabolic process</a>	RT			39	1.6E-7	5.0E-5	2.6E-4
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">macromolecule catabolic process</a>	RT			39	9.8E-7	2.6E-4	1.6E-3
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">proteolysis</a>	RT			42	8.0E-5	1.8E-2	1.3E-1
		Enrichment Score: 3.98		G					
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">small conjugating protein ligase activity</a>	RT			14	2.6E-5	1.2E-2	3.7E-2
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">ubiquitin-protein ligase activity</a>	RT			13	3.5E-5	8.4E-3	5.0E-2
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">acid-amino acid ligase activity</a>	RT			14	1.8E-4	2.9E-2	2.6E-1
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">ligase activity, forming carbon-nitrogen bonds</a>	RT			14	7.0E-4	6.5E-2	1.0E0
		Enrichment Score: 3.91		G					
<input type="checkbox"/>	<a href="#">GOTERM_CC_FAT</a>	<a href="#">nuclear lumen</a>	RT			51	1.5E-5	4.5E-3	2.0E-2
<input type="checkbox"/>	<a href="#">GOTERM_CC_FAT</a>	<a href="#">organelle lumen</a>	RT			56	2.0E-4	2.0E-2	2.7E-1
<input type="checkbox"/>	<a href="#">GOTERM_CC_FAT</a>	<a href="#">intracellular organelle lumen</a>	RT			55	2.1E-4	1.6E-2	2.8E-1
<input type="checkbox"/>	<a href="#">GOTERM_CC_FAT</a>	<a href="#">membrane-enclosed lumen</a>	RT			56	3.4E-4	2.0E-2	4.5E-1
		Enrichment Score: 2.93		G					
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">metal ion binding</a>	RT			107	8.9E-4	6.9E-2	1.3E0
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">cation binding</a>	RT			107	1.3E-3	7.3E-2	1.8E0
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">ion binding</a>	RT			108	1.4E-3	7.4E-2	2.1E0
		Enrichment Score: 2.77		G					
<input type="checkbox"/>	<a href="#">GOTERM_CC_FAT</a>	<a href="#">myofibril</a>	RT			9	1.2E-3	5.7E-2	1.6E0
<input type="checkbox"/>	<a href="#">GOTERM_CC_FAT</a>	<a href="#">contractile fiber part</a>	RT			9	1.3E-3	5.5E-2	1.8E0
<input type="checkbox"/>	<a href="#">GOTERM_CC_FAT</a>	<a href="#">contractile fiber</a>	RT			9	2.1E-3	7.4E-2	2.7E0
<input type="checkbox"/>	<a href="#">GOTERM_CC_FAT</a>	<a href="#">sarcomere</a>	RT			8	2.5E-3	8.0E-2	3.3E0
		Enrichment Score: 2.74		G					
<input type="checkbox"/>	<a href="#">SP_PIR_KEYWORDS</a>	<a href="#">zinc-finger</a>	RT			54	7.1E-4	4.2E-2	9.7E-1
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">transition metal ion binding</a>	RT			77	1.3E-3	8.2E-2	1.8E0
<input type="checkbox"/>	<a href="#">SP_PIR_KEYWORDS</a>	<a href="#">zinc</a>	RT			63	2.1E-3	7.2E-2	2.8E0
<input type="checkbox"/>	<a href="#">GOTERM_MF_FAT</a>	<a href="#">zinc ion binding</a>	RT			63	6.0E-3	2.1E-1	8.3E0
		Enrichment Score: 2.27		G					
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">protein ubiquitination</a>	RT			9	3.5E-3	5.0E-1	5.7E0
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">protein modification by small protein conjugation or removal</a>	RT			10	6.5E-3	6.9E-1	1.0E1
<input type="checkbox"/>	<a href="#">GOTERM_BP_FAT</a>	<a href="#">protein modification by small protein conjugation</a>	RT			9	6.6E-3	6.5E-1	1.0E1
		Enrichment Score: 2.1		G					

	Annotation Cluster 1	Enrichment Score: 6.89	G	RT	Count	P_Value	Benjamini	FDR
□	<b>UP_SEQ_FEATURE</b>	domain:SOCS box	RT	RT	5	6.6E-3	8.7E-1	1.0E1
□	<b>INTERPRO</b>	<a href="#">SOCS protein, C-terminal</a>	RT	RT	5	7.1E-3	9.9E-1	1.0E1
□	<b>SMART</b>	<a href="#">SOCS</a>	RT	RT	5	1.1E-2	8.2E-1	1.2E1
	Annotation Cluster 9	Enrichment Score: 1.93	G	RT	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_CC_FAT</b>	<a href="#">mitochondrial outer membrane</a>	RT	RT	7	7.0E-3	1.6E-1	9.0E0
□	<b>GOTERM_CC_FAT</b>	<a href="#">organelle outer membrane</a>	RT	RT	7	1.4E-2	2.2E-1	1.7E1
□	<b>GOTERM_CC_FAT</b>	<a href="#">outer membrane</a>	RT	RT	7	1.6E-2	2.1E-1	2.0E1
	Annotation Cluster 10	Enrichment Score: 1.8	G	RT	Count	P_Value	Benjamini	FDR
□	<b>INTERPRO</b>	<a href="#">Cyclin-like F-box</a>	RT	RT	6	1.4E-2	9.0E-1	1.9E1
□	<b>UP_SEQ_FEATURE</b>	domain:F-box	RT	RT	6	1.4E-2	9.2E-1	2.1E1
□	<b>SMART</b>	<a href="#">FBOX</a>	RT	RT	6	2.0E-2	6.7E-1	2.2E1
	Annotation Cluster 11	Enrichment Score: 1.78	G	RT	Count	P_Value	Benjamini	FDR
□	<b>SP_PIR_KEYWORDS</b>	<a href="#">ank repeat</a>	RT	RT	12	8.3E-3	2.1E-1	1.1E1
□	<b>INTERPRO</b>	<a href="#">Ankyrin</a>	RT	RT	12	9.5E-3	9.6E-1	1.3E1
□	<b>UP_SEQ_FEATURE</b>	repeat:ANK 1	RT	RT	11	1.7E-2	9.1E-1	2.5E1
□	<b>UP_SEQ_FEATURE</b>	repeat:ANK 2	RT	RT	11	1.8E-2	8.9E-1	2.5E1
□	<b>SMART</b>	<a href="#">ANK</a>	RT	RT	12	2.0E-2	8.1E-1	2.2E1
□	<b>UP_SEQ_FEATURE</b>	repeat:ANK 3	RT	RT	9	4.0E-2	9.5E-1	4.8E1
	Annotation Cluster 12	Enrichment Score: 1.75	G	RT	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_CC_FAT</b>	<a href="#">sarcoplasmic reticulum membrane</a>	RT	RT	4	3.7E-3	9.6E-2	4.8E0
□	<b>GOTERM_CC_FAT</b>	<a href="#">sarcoplasmic reticulum</a>	RT	RT	4	3.7E-2	3.2E-1	3.9E1
□	<b>GOTERM_CC_FAT</b>	<a href="#">sarcoplasm</a>	RT	RT	4	4.2E-2	3.5E-1	4.3E1
	Annotation Cluster 13	Enrichment Score: 1.7	G	RT	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of apoptosis</a>	RT	RT	27	1.8E-2	8.8E-1	2.6E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of programmed cell death</a>	RT	RT	27	2.0E-2	8.7E-1	2.9E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of cell death</a>	RT	RT	27	2.1E-2	8.6E-1	3.0E1
	Annotation Cluster 14	Enrichment Score: 1.68	G	RT	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">telomere maintenance</a>	RT	RT	4	2.0E-2	8.9E-1	2.9E1
□	<b>KEGG_PATHWAY</b>	<a href="#">Non-homologous end-joining</a>	RT	RT	3	2.1E-2	7.0E-1	2.1E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">telomere organization</a>	RT	RT	4	2.2E-2	8.6E-1	3.1E1
	Annotation Cluster 15	Enrichment Score: 1.62	G	RT	Count	P_Value	Benjamini	FDR
□	<b>UP_SEQ_FEATURE</b>	zinc finger region:RING-type	RT	RT	11	9.4E-3	9.0E-1	1.4E1
□	<b>INTERPRO</b>	<a href="#">Zinc finger, RING-type, conserved site</a>	RT	RT	13	1.2E-2	9.3E-1	1.7E1
□	<b>INTERPRO</b>	<a href="#">Zinc finger, RING-type</a>	RT	RT	12	4.0E-2	9.6E-1	4.5E1
□	<b>SMART</b>	<a href="#">RING</a>	RT	RT	12	7.6E-2	8.4E-1	6.2E1
	Annotation Cluster 16	Enrichment Score: 1.61	G	RT	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_CC_FAT</b>	<a href="#">integrator complex</a>	RT	RT	3	2.4E-2	2.5E-1	2.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">snRNA processing</a>	RT	RT	3	2.5E-2	8.5E-1	3.5E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">snRNA metabolic process</a>	RT	RT	3	2.5E-2	8.5E-1	3.5E1
	Annotation Cluster 17	Enrichment Score: 1.57	G	RT	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_CC_FAT</b>	<a href="#">endoplasmic reticulum part</a>	RT	RT	14	1.5E-2	2.1E-1	1.8E1
□	<b>GOTERM_CC_FAT</b>	<a href="#">endoplasmic reticulum membrane</a>	RT	RT	11	3.2E-2	2.9E-1	3.5E1
□	<b>GOTERM_CC_FAT</b>	<a href="#">nuclear envelope-endoplasmic reticulum network</a>	RT	RT	11	4.3E-2	3.5E-1	4.4E1
	Annotation Cluster 18	Enrichment Score: 1.49	G	RT	Count	P_Value	Benjamini	FDR
□	<b>UP_SEQ_FEATURE</b>	repeat:MORN 4	RT	RT	3	1.9E-2	8.6E-1	2.7E1
□	<b>UP_SEQ_FEATURE</b>	repeat:MORN 3	RT	RT	3	3.0E-2	9.2E-1	3.9E1
□	<b>UP_SEQ_FEATURE</b>	repeat:MORN 2	RT	RT	3	3.5E-2	9.3E-1	4.4E1
□	<b>UP_SEQ_FEATURE</b>	repeat:MORN 1	RT	RT	3	3.5E-2	9.3E-1	4.4E1
□	<b>INTERPRO</b>	<a href="#">MORN motif</a>	RT	RT	3	3.6E-2	9.7E-1	4.2E1
□	<b>SMART</b>	<a href="#">MORN</a>	RT	RT	3	4.5E-2	8.5E-1	4.3E1
	Annotation Cluster 19	Enrichment Score: 1.42	G	RT	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of apoptosis</a>	RT	RT	14	3.6E-2	8.8E-1	4.6E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of programmed cell death</a>	RT	RT	14	3.9E-2	8.8E-1	4.9E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of cell death</a>	RT	RT	14	4.0E-2	8.7E-1	5.0E1

Annotation Cluster 1		Enrichment Score: 6.89		G	Count	P_Value	Benjamini	FDR	
Annotation Cluster 20		Enrichment Score: 1.4		G	Count	P_Value	Benjamini	FDR	
	<b>SP_PIR_KEYWORDS</b>	<a href="#">chromatin regulator</a>	RT		11	9.9E-3	2.2E-1	1.3E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">chromatin modification</a>	RT		11	6.3E-2	9.3E-1	6.6E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">chromatin organization</a>	RT		13	1.0E-1	9.6E-1	8.3E1	
Annotation Cluster 21		Enrichment Score: 1.34		G		Count	P_Value	Benjamini	FDR
	<b>UP_SEQ_FEATURE</b>	nucleotide phosphate-binding region:GTP	RT		13	1.5E-2	9.0E-1	2.2E1	
	<b>SP_PIR_KEYWORDS</b>	<a href="#">gtp-binding</a>	RT		13	3.1E-2	3.7E-1	3.5E1	
	<b>GOTERM_MF_FAT</b>	<a href="#">GTP binding</a>	RT		13	6.8E-2	7.4E-1	6.3E1	
	<b>GOTERM_MF_FAT</b>	<a href="#">guanyl ribonucleotide binding</a>	RT		13	7.8E-2	7.7E-1	6.9E1	
	<b>GOTERM_MF_FAT</b>	<a href="#">guanyl nucleotide binding</a>	RT		13	7.8E-2	7.7E-1	6.9E1	
Annotation Cluster 22		Enrichment Score: 1.32		G		Count	P_Value	Benjamini	FDR
	<b>SP_PIR_KEYWORDS</b>	<a href="#">DNA damage</a>	RT		10	2.1E-2	2.9E-1	2.5E1	
	<b>SP_PIR_KEYWORDS</b>	<a href="#">dna repair</a>	RT		9	3.6E-2	4.1E-1	4.0E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">DNA repair</a>	RT		11	7.6E-2	9.5E-1	7.3E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">response to DNA damage stimulus</a>	RT		13	9.3E-2	9.6E-1	8.0E1	
Annotation Cluster 23		Enrichment Score: 1.25		G		Count	P_Value	Benjamini	FDR
	<b>GOTERM_MF_FAT</b>	<a href="#">double-stranded RNA binding</a>	RT		4	2.7E-2	5.8E-1	3.2E1	
	<b>INTERPRO</b>	<a href="#">Double-stranded RNA binding</a>	RT		3	7.3E-2	9.7E-1	6.8E1	
	<b>SMART</b>	<a href="#">DSRM</a>	RT		3	8.9E-2	8.2E-1	6.8E1	
Annotation Cluster 24		Enrichment Score: 1.15		G		Count	P_Value	Benjamini	FDR
	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of I-kappaB kinase/NF-kappaB cascade</a>	RT		7	2.5E-2	8.6E-1	3.4E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of I-kappaB kinase/NF-kappaB cascade</a>	RT		6	5.3E-2	9.0E-1	6.0E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of protein kinase cascade</a>	RT		6	2.7E-1	9.9E-1	1.0E2	
Annotation Cluster 25		Enrichment Score: 1.13		G		Count	P_Value	Benjamini	FDR
	<b>GOTERM_CC_FAT</b>	<a href="#">insoluble fraction</a>	RT		24	4.5E-2	3.4E-1	4.6E1	
	<b>GOTERM_CC_FAT</b>	<a href="#">membrane fraction</a>	RT		23	5.3E-2	3.8E-1	5.2E1	
	<b>GOTERM_CC_FAT</b>	<a href="#">cell fraction</a>	RT		26	1.7E-1	7.2E-1	9.2E1	
Annotation Cluster 26		Enrichment Score: 1.06		G		Count	P_Value	Benjamini	FDR
	<b>INTERPRO</b>	<a href="#">Ubiquitin-associated/translation elongation factor EF1B, N-terminal, eukaryote</a>	RT		4	5.3E-2	9.7E-1	5.6E1	
	<b>SMART</b>	<a href="#">UBA</a>	RT		4	7.0E-2	8.6E-1	5.9E1	
	<b>INTERPRO</b>	<a href="#">Ubiquitin-associated/translation elongation factor EF1B, N-terminal</a>	RT		3	1.8E-1	1.0E0	9.5E1	
Annotation Cluster 27		Enrichment Score: 1.01		G		Count	P_Value	Benjamini	FDR
	<b>GOTERM_BP_FAT</b>	<a href="#">transcription, DNA-dependent</a>	RT		11	8.7E-2	9.5E-1	7.8E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">RNA biosynthetic process</a>	RT		11	9.3E-2	9.6E-1	8.1E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">transcription from RNA polymerase II promoter</a>	RT		9	1.2E-1	9.7E-1	8.8E1	
Annotation Cluster 28		Enrichment Score: 1		G		Count	P_Value	Benjamini	FDR
	<b>SP_PIR_KEYWORDS</b>	<a href="#">nucleotide-binding</a>	RT		43	6.8E-2	5.2E-1	6.2E1	
	<b>GOTERM_MF_FAT</b>	<a href="#">nucleotide binding</a>	RT		54	9.2E-2	8.2E-1	7.5E1	
	<b>GOTERM_MF_FAT</b>	<a href="#">ribonucleotide binding</a>	RT		45	1.0E-1	7.9E-1	7.8E1	
	<b>GOTERM_MF_FAT</b>	<a href="#">purine ribonucleotide binding</a>	RT		45	1.0E-1	7.9E-1	7.8E1	
	<b>GOTERM_MF_FAT</b>	<a href="#">purine nucleotide binding</a>	RT		45	1.6E-1	8.7E-1	9.2E1	
Annotation Cluster 29		Enrichment Score: 0.99		G		Count	P_Value	Benjamini	FDR
	<b>GOTERM_BP_FAT</b>	<a href="#">cell death</a>	RT		22	7.6E-2	9.4E-1	7.3E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">death</a>	RT		22	7.8E-2	9.4E-1	7.4E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">apoptosis</a>	RT		18	1.3E-1	9.7E-1	9.0E1	
	<b>GOTERM_BP_FAT</b>	<a href="#">programmed cell death</a>	RT		18	1.4E-1	9.8E-1	9.2E1	
Annotation Cluster 30		Enrichment Score: 0.93		G		Count	P_Value	Benjamini	FDR
	<b>GOTERM_CC_FAT</b>	<a href="#">mitochondrial membrane</a>	RT		13	7.0E-2	4.6E-1	6.2E1	
	<b>GOTERM_CC_FAT</b>	<a href="#">mitochondrial envelope</a>	RT		13	9.9E-2	5.5E-1	7.5E1	
	<b>GOTERM_CC_FAT</b>	<a href="#">mitochondrial part</a>	RT		15	2.3E-1	7.8E-1	9.7E1	
Annotation Cluster 31		Enrichment Score: 0.92		G		Count	P_Value	Benjamini	FDR
	<b>UP_SEQ_FEATURE</b>	repeat:ANK 8	RT		4	5.0E-2	9.7E-1	5.7E1	
	<b>UP_SEQ_FEATURE</b>	repeat:ANK 7	RT		4	1.1E-1	1.0E0	8.4E1	

	Annotation Cluster 1	Enrichment Score: 6.89	G	RT	Count	P_Value	Benjamini	FDR
□	UP_SEQ_FEATURE	repeat:ANK 6	RT	■	5	1.1E-1	1.0E0	8.5E1
□	UP_SEQ_FEATURE	repeat:ANK 9	RT	■	3	1.7E-1	1.0E0	9.5E1
□	UP_SEQ_FEATURE	repeat:ANK 5	RT	■	5	2.6E-1	1.0E0	9.9E1
	Annotation Cluster 32	Enrichment Score: 0.91	G	RT	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	<a href="#">negative regulation of protein kinase activity</a>	RT	■	5	1.1E-1	9.7E-1	8.6E1
□	GOTERM_BP_FAT	<a href="#">negative regulation of kinase activity</a>	RT	■	5	1.2E-1	9.7E-1	8.8E1
□	GOTERM_BP_FAT	<a href="#">negative regulation of transferase activity</a>	RT	■	5	1.4E-1	9.8E-1	9.2E1
	Annotation Cluster 33	Enrichment Score: 0.9	G	RT	Count	P_Value	Benjamini	FDR
□	SP_PIR_KEYWORDS	<a href="#">Transcription</a>	RT	■■■	52	5.5E-2	4.7E-1	5.4E1
□	SP_PIR_KEYWORDS	<a href="#">transcription regulation</a>	RT	■■■	49	1.0E-1	6.3E-1	7.7E1
□	GOTERM_BP_FAT	<a href="#">transcription</a>	RT	■■■	52	1.4E-1	9.8E-1	9.2E1
□	GOTERM_BP_FAT	<a href="#">regulation of transcription</a>	RT	■■■	59	3.1E-1	9.9E-1	1.0E2
	Annotation Cluster 34	Enrichment Score: 0.87	G	RT	Count	P_Value	Benjamini	FDR
□	UP_SEQ_FEATURE	domain:JmjC	RT	■	3	1.2E-1	1.0E0	8.7E1
□	INTERPRO	<a href="#">Transcription factor Iumonji/aspartyl beta-hydroxylase</a>	RT	■	3	1.3E-1	9.9E-1	8.8E1
□	SMART	<a href="#">JmIC</a>	RT	■	3	1.6E-1	9.4E-1	8.7E1
	Annotation Cluster 35	Enrichment Score: 0.87	G	RT	Count	P_Value	Benjamini	FDR
□	GOTERM_MF_FAT	<a href="#">purine NTP-dependent helicase activity</a>	RT	■	6	4.5E-2	6.7E-1	4.8E1
□	GOTERM_MF_FAT	<a href="#">ATP-dependent helicase activity</a>	RT	■	6	4.5E-2	6.7E-1	4.8E1
□	SP_PIR_KEYWORDS	<a href="#">helicase</a>	RT	■	6	1.3E-1	6.9E-1	8.4E1
□	INTERPRO	<a href="#">DNA/RNA helicase, DEAD/DEAH box type, N-terminal</a>	RT	■	4	1.3E-1	9.9E-1	8.7E1
□	GOTERM_MF_FAT	<a href="#">helicase activity</a>	RT	■	6	1.4E-1	8.6E-1	8.9E1
□	UP_SEQ_FEATURE	domain:Helicase C-terminal	RT	■	5	1.6E-1	1.0E0	9.4E1
□	INTERPRO	<a href="#">DNA/RNA helicase, C-terminal</a>	RT	■	5	1.7E-1	1.0E0	9.4E1
□	INTERPRO	<a href="#">Helicase, superfamily 1 and 2, ATP-binding</a>	RT	■	5	1.7E-1	1.0E0	9.4E1
□	UP_SEQ_FEATURE	domain:Helicase ATP-binding	RT	■	5	1.7E-1	1.0E0	9.6E1
□	INTERPRO	<a href="#">DEAD-like helicase, N-terminal</a>	RT	■	5	1.8E-1	1.0E0	9.5E1
□	SMART	<a href="#">HELICc</a>	RT	■	5	2.2E-1	9.7E-1	9.5E1
□	SMART	<a href="#">DEXDc</a>	RT	■	5	2.4E-1	9.7E-1	9.6E1
	Annotation Cluster 36	Enrichment Score: 0.87	G	RT	Count	P_Value	Benjamini	FDR
□	INTERPRO	<a href="#">Ubiquitin</a>	RT	■	4	6.6E-2	9.7E-1	6.4E1
□	SMART	<a href="#">UBQ</a>	RT	■	4	8.7E-2	8.4E-1	6.7E1
□	UP_SEQ_FEATURE	domain:Ubiquitin-like	RT	■	3	2.0E-1	1.0E0	9.7E1
□	INTERPRO	<a href="#">Ubiquitin supergroup</a>	RT	■	3	2.8E-1	1.0E0	9.9E1
	Annotation Cluster 37	Enrichment Score: 0.87	G	RT	Count	P_Value	Benjamini	FDR
□	SP_PIR_KEYWORDS	<a href="#">serine/threonine-protein kinase</a>	RT	■	14	3.9E-2	4.3E-1	4.2E1
□	GOTERM_MF_FAT	<a href="#">protein serine/threonine kinase activity</a>	RT	■	15	4.7E-2	6.7E-1	5.0E1
□	INTERPRO	<a href="#">Serine/threonine protein kinase-related</a>	RT	■	13	6.3E-2	9.7E-1	6.2E1
□	INTERPRO	<a href="#">Serine/threonine protein kinase, active site</a>	RT	■	12	1.1E-1	9.9E-1	8.2E1
□	INTERPRO	<a href="#">Protein kinase, ATP binding site</a>	RT	■	14	1.3E-1	9.9E-1	8.8E1
□	UP_SEQ_FEATURE	domain:Protein kinase	RT	■	14	1.4E-1	1.0E0	9.2E1
□	GOTERM_MF_FAT	<a href="#">protein kinase activity</a>	RT	■	17	1.5E-1	8.6E-1	9.0E1
□	INTERPRO	<a href="#">Protein kinase, core</a>	RT	■	14	1.8E-1	1.0E0	9.4E1
□	UP_SEQ_FEATURE	binding site:ATP	RT	■	14	2.8E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">protein amino acid phosphorylation</a>	RT	■	17	3.2E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	<a href="#">phosphorylation</a>	RT	■	18	5.0E-1	1.0E0	1.0E2
	Annotation Cluster 38	Enrichment Score: 0.84	G	RT	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	<a href="#">stress-activated protein kinase signalling pathway</a>	RT	■	5	4.3E-2	8.7E-1	5.2E1
□	GOTERM_BP_FAT	<a href="#">JNK cascade</a>	RT	■	4	1.3E-1	9.7E-1	8.9E1
□	GOTERM_BP_FAT	<a href="#">MAPKKK cascade</a>	RT	■	5	5.5E-1	1.0E0	1.0E2
	Annotation Cluster 39	Enrichment Score: 0.83	G	RT	Count	P_Value	Benjamini	FDR
□	KEGG_PATHWAY	<a href="#">Steroid biosynthesis</a>	RT	■	3	3.5E-2	6.3E-1	3.3E1

	Annotation Cluster 1	Enrichment Score: 6.89	G	Count	P_Value	Benjamini	FDR
SP_PIR_KEYWORDS	<a href="#">Steroid biosynthesis</a>	RT	■	4	4.4E-2	4.5E-1	4.6E1
GOTERM_BP_FAT	<a href="#">cholesterol biosynthetic process</a>	RT	■	3	1.0E-1	9.6E-1	8.4E1
GOTERM_BP_FAT	<a href="#">sterol biosynthetic process</a>	RT	■	3	1.7E-1	9.8E-1	9.5E1
GOTERM_BP_FAT	<a href="#">steroid biosynthetic process</a>	RT	■	4	2.6E-1	9.9E-1	9.9E1
GOTERM_BP_FAT	<a href="#">cholesterol metabolic process</a>	RT	■	4	3.0E-1	9.9E-1	1.0E2
SP_PIR_KEYWORDS	<a href="#">lipid synthesis</a>	RT	■	4	3.0E-1	8.6E-1	9.9E1
GOTERM_BP_FAT	<a href="#">sterol metabolic process</a>	RT	■	4	3.5E-1	9.9E-1	1.0E2
Annotation Cluster 40				Enrichment Score: 0.83	G	Count	P_Value Benjamini FDR
GOTERM_CC_FAT	<a href="#">membrane-bound vesicle</a>	RT	■	17	7.1E-2	4.6E-1	6.3E1
GOTERM_CC_FAT	<a href="#">vesicle</a>	RT	■	18	1.3E-1	6.3E-1	8.4E1
GOTERM_CC_FAT	<a href="#">cytoplasmic membrane-bound vesicle</a>	RT	■	15	1.6E-1	7.0E-1	9.0E1
GOTERM_CC_FAT	<a href="#">cytoplasmic vesicle</a>	RT	■	15	3.3E-1	8.6E-1	9.9E1
Annotation Cluster 41				Enrichment Score: 0.81	G	Count	P_Value Benjamini FDR
BIOCARTA	<a href="#">Influence of Ras and Rho proteins on G1 to S Transition</a>	RT	■	4	3.5E-2	8.8E-1	3.3E1
KEGG_PATHWAY	<a href="#">B cell receptor signaling pathway</a>	RT	■	5	4.2E-2	6.2E-1	3.8E1
BIOCARTA	<a href="#">Angiotensin II mediated activation of JNK Pathway via Pyk2 dependent signaling</a>	RT	■	4	4.7E-2	8.5E-1	4.2E1
BIOCARTA	<a href="#">Role of MAL in Rho-Mediated Activation of SRF</a>	RT	■	3	1.1E-1	9.4E-1	7.5E1
BIOCARTA	<a href="#">Ras Signaling Pathway</a>	RT	■	3	1.2E-1	9.3E-1	7.8E1
KEGG_PATHWAY	<a href="#">Renal cell carcinoma</a>	RT	■	4	1.2E-1	6.1E-1	7.8E1
KEGG_PATHWAY	<a href="#">VEGF signaling pathway</a>	RT	■	4	1.4E-1	5.8E-1	8.3E1
BIOCARTA	<a href="#">fMLP induced chemokine gene expression in HMC-1 cells</a>	RT	■	3	1.8E-1	9.5E-1	8.9E1
BIOCARTA	<a href="#">BCR Signaling Pathway</a>	RT	■	3	1.9E-1	9.4E-1	9.1E1
BIOCARTA	<a href="#">Links between Pyk2 and Map Kinases</a>	RT	■	3	1.9E-1	9.4E-1	9.1E1
BIOCARTA	<a href="#">T Cell Receptor Signaling Pathway</a>	RT	■	3	2.8E-1	9.6E-1	9.8E1
KEGG_PATHWAY	<a href="#">Fc epsilon RI signaling pathway</a>	RT	■	3	4.0E-1	7.9E-1	1.0E2
KEGG_PATHWAY	<a href="#">Natural killer cell mediated cytotoxicity</a>	RT	■	4	4.1E-1	8.0E-1	1.0E2
SP_PIR_KEYWORDS	<a href="#">Proto-oncogene</a>	RT	■	4	8.3E-1	1.0E0	1.0E2
Annotation Cluster 42				Enrichment Score: 0.81	G	Count	P_Value Benjamini FDR
GOTERM_BP_FAT	<a href="#">positive regulation of protein polymerization</a>	RT	■	4	1.5E-2	8.4E-1	2.2E1
GOTERM_BP_FAT	<a href="#">positive regulation of actin filament polymerization</a>	RT	■	3	2.5E-2	8.5E-1	3.5E1
GOTERM_BP_FAT	<a href="#">positive regulation of protein complex assembly</a>	RT	■	4	3.6E-2	8.8E-1	4.6E1
GOTERM_BP_FAT	<a href="#">positive regulation of cytoskeleton organization</a>	RT	■	4	6.8E-2	9.3E-1	6.9E1
GOTERM_BP_FAT	<a href="#">positive regulation of organelle organization</a>	RT	■	5	9.6E-2	9.6E-1	8.2E1
GOTERM_BP_FAT	<a href="#">regulation of protein complex assembly</a>	RT	■	5	1.2E-1	9.7E-1	8.8E1
GOTERM_BP_FAT	<a href="#">regulation of protein polymerization</a>	RT	■	4	1.7E-1	9.8E-1	9.6E1
GOTERM_BP_FAT	<a href="#">regulation of actin filament polymerization</a>	RT	■	3	3.1E-1	9.9E-1	1.0E2
GOTERM_BP_FAT	<a href="#">regulation of cellular component biogenesis</a>	RT	■	5	3.5E-1	9.9E-1	1.0E2
GOTERM_BP_FAT	<a href="#">regulation of actin polymerization or depolymerization</a>	RT	■	3	3.7E-1	9.9E-1	1.0E2
GOTERM_BP_FAT	<a href="#">regulation of actin filament length</a>	RT	■	3	3.8E-1	9.9E-1	1.0E2
GOTERM_BP_FAT	<a href="#">regulation of cytoskeleton organization</a>	RT	■	4	5.4E-1	1.0E0	1.0E2
GOTERM_BP_FAT	<a href="#">regulation of actin cytoskeleton organization</a>	RT	■	3	5.6E-1	1.0E0	1.0E2
GOTERM_BP_FAT	<a href="#">regulation of actin filament-based process</a>	RT	■	3	5.8E-1	1.0E0	1.0E2
Annotation Cluster 43				Enrichment Score: 0.76	G	Count	P_Value Benjamini FDR
GOTERM_BP_FAT	<a href="#">protein localization</a>	RT	■	24	1.6E-1	9.8E-1	9.5E1
GOTERM_BP_FAT	<a href="#">protein transport</a>	RT	■	21	1.7E-1	9.8E-1	9.6E1
GOTERM_BP_FAT	<a href="#">establishment of protein localization</a>	RT	■	21	1.9E-1	9.8E-1	9.7E1
Annotation Cluster 44				Enrichment Score: 0.73	G	Count	P_Value Benjamini FDR
GOTERM_BP_FAT	<a href="#">nucleic acid transport</a>	RT	■	5	1.5E-1	9.8E-1	9.3E1
GOTERM_BP_FAT	<a href="#">RNA transport</a>	RT	■	5	1.5E-1	9.8E-1	9.3E1
GOTERM_BP_FAT	<a href="#">establishment of RNA localization</a>	RT	■	5	1.5E-1	9.8E-1	9.3E1

	Annotation Cluster 1	Enrichment Score: 6.89	G	RT	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">RNA localization</a>	■	■	5	1.6E-1	9.8E-1	9.4E1
□	<b>GOTERM_CC_FAT</b>	<a href="#">nuclear pore</a>	■	■	4	1.9E-1	7.3E-1	9.4E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">nucleobase_nucleoside_nucleotide_and_nucleic_acid_transport</a>	■	■	5	2.1E-1	9.8E-1	9.8E1
□	<b>GOTERM_CC_FAT</b>	<a href="#">pore_complex</a>	■	■	4	2.7E-1	8.1E-1	9.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">mRNA_transport</a>	■	■	4	2.7E-1	9.9E-1	1.0E2
	Annotation Cluster 45	Enrichment Score: 0.71	G	■	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of neurogenesis</a>	■	■	5	3.5E-2	9.0E-1	4.5E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of cell development</a>	■	■	5	5.6E-2	9.1E-1	6.2E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of cell development</a>	■	■	7	2.6E-1	9.9E-1	9.9E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of neurogenesis</a>	■	■	6	2.7E-1	9.9E-1	9.9E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of developmental_process</a>	■	■	8	3.7E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of nervous system_development</a>	■	■	6	3.8E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of cell differentiation</a>	■	■	6	5.3E-1	1.0E0	1.0E2
	Annotation Cluster 46	Enrichment Score: 0.69	G	■	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of phosphorylation</a>	■	■	14	1.8E-1	9.8E-1	9.6E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation_of_phosphorus_metabolic_process</a>	■	■	14	2.2E-1	9.8E-1	9.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation_of_phosphate_metabolic_process</a>	■	■	14	2.2E-1	9.8E-1	9.8E1
	Annotation Cluster 47	Enrichment Score: 0.68	G	■	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_MF_FAT</b>	<a href="#">protein_serine/threonine_phosphatase_activity</a>	■	■	4	5.9E-2	7.0E-1	5.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">dephosphorylation</a>	■	■	6	2.2E-1	9.8E-1	9.8E1
□	<b>GOTERM_MF_FAT</b>	<a href="#">phosphoprotein_phosphatase_activity</a>	■	■	6	2.3E-1	9.4E-1	9.8E1
□	<b>SP_PIR_KEYWORDS</b>	<a href="#">protein_phosphatase</a>	■	■	5	2.5E-1	8.1E-1	9.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">protein_amino_acid_dephosphorylation</a>	■	■	5	3.0E-1	9.9E-1	1.0E2
□	<b>GOTERM_MF_FAT</b>	<a href="#">phosphatase_activity</a>	■	■	7	3.7E-1	9.8E-1	1.0E2
	Annotation Cluster 48	Enrichment Score: 0.66	G	■	Count	P_Value	Benjamini	FDR
□	<b>UP_SEQ_FEATURE</b>	<a href="#">region_of_interest:Modulating</a>	■	■	3	3.0E-2	9.2E-1	3.9E1
□	<b>UP_SEQ_FEATURE</b>	<a href="#">DNA-binding_region:Nuclear_receptor</a>	■	■	3	2.2E-1	1.0E0	9.8E1
□	<b>UP_SEQ_FEATURE</b>	<a href="#">zinc_finger_region:NR_C4-type</a>	■	■	3	2.2E-1	1.0E0	9.8E1
□	<b>INTERPRO</b>	<a href="#">Zinc_finger_nuclear_hormone_receptor-type</a>	■	■	3	2.4E-1	1.0E0	9.8E1
□	<b>INTERPRO</b>	<a href="#">Steroid_hormone_receptor</a>	■	■	3	2.5E-1	1.0E0	9.9E1
□	<b>GOTERM_MF_FAT</b>	<a href="#">steroid_hormone_receptor_activity</a>	■	■	3	2.5E-1	9.5E-1	9.8E1
□	<b>INTERPRO</b>	<a href="#">Nuclear_hormone_receptor_ligand-binding</a>	■	■	3	2.5E-1	1.0E0	9.9E1
□	<b>INTERPRO</b>	<a href="#">Nuclear_hormone_receptor_ligand-binding_core</a>	■	■	3	2.5E-1	1.0E0	9.9E1
□	<b>INTERPRO</b>	<a href="#">Zinc_finger_NHR/GATA-type</a>	■	■	3	2.8E-1	1.0E0	9.9E1
□	<b>SMART</b>	<a href="#">ZnF_C4</a>	■	■	3	2.8E-1	9.7E-1	9.8E1
□	<b>SMART</b>	<a href="#">HOLI</a>	■	■	3	3.0E-1	9.7E-1	9.9E1
□	<b>GOTERM_MF_FAT</b>	<a href="#">ligand-dependent_nuclear_receptor_activity</a>	■	■	3	3.2E-1	9.7E-1	1.0E2
	Annotation Cluster 49	Enrichment Score: 0.64	G	■	Count	P_Value	Benjamini	FDR
□	<b>INTERPRO</b>	<a href="#">Ubiquitin-conjugating_enzyme_E2</a>	■	■	3	2.0E-1	1.0E0	9.7E1
□	<b>SMART</b>	<a href="#">UBCc</a>	■	■	3	2.4E-1	9.6E-1	9.6E1
□	<b>INTERPRO</b>	<a href="#">Ubiquitin-conjugating_enzyme/RWD-like</a>	■	■	3	2.5E-1	1.0E0	9.9E1
	Annotation Cluster 50	Enrichment Score: 0.6	G	■	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">RNA_splicing_via_transesterification_reactions_with_bulged_adenosine_as_nucleophile</a>	■	■	6	2.2E-1	9.8E-1	9.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">RNA_splicing_via_transesterification_reactions</a>	■	■	6	2.2E-1	9.8E-1	9.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">nuclear_mRNA_splicing_via_spliceosome</a>	■	■	6	2.2E-1	9.8E-1	9.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">RNA_splicing</a>	■	■	8	3.8E-1	9.9E-1	1.0E2
	Annotation Cluster 51	Enrichment Score: 0.59	G	■	Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation_of_DNA_binding</a>	■	■	4	1.8E-1	9.8E-1	9.6E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation_of_NF-kappaB_transcription_factor_activity</a>	■	■	3	2.1E-1	9.9E-1	9.8E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation_of_binding</a>	■	■	4	2.2E-1	9.9E-1	9.9E1

	Annotation Cluster 1	Enrichment Score: 6.89	G	RT	Count	P_Value	Benjamini	FDR
	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of DNA binding</a>	RT	RT	5	2.5E-1	9.9E-1	9.9E1
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of transcription factor activity</a>	RT	RT	3	3.6E-1	9.9E-1	1.0E2
	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of binding</a>	RT	RT	5	4.0E-1	9.9E-1	1.0E2
	Annotation Cluster 52	Enrichment Score: 0.58	G	RT	Count	P_Value	Benjamini	FDR
	<b>SP_PIR_KEYWORDS</b>	<a href="#">mrna processing</a>	RT	RT	9	1.4E-1	7.2E-1	8.8E1
	<b>GOTERM_BP_FAT</b>	<a href="#">mRNA processing</a>	RT	RT	10	2.3E-1	9.8E-1	9.9E1
	<b>GOTERM_BP_FAT</b>	<a href="#">mRNA metabolic process</a>	RT	RT	10	3.7E-1	9.9E-1	1.0E2
	<b>GOTERM_BP_FAT</b>	<a href="#">RNA splicing</a>	RT	RT	8	3.8E-1	9.9E-1	1.0E2
	Annotation Cluster 53	Enrichment Score: 0.57	G	RT	Count	P_Value	Benjamini	FDR
	<b>GOTERM_BP_FAT</b>	<a href="#">induction of apoptosis</a>	RT	RT	10	2.3E-1	9.9E-1	9.9E1
	<b>GOTERM_BP_FAT</b>	<a href="#">induction of programmed cell death</a>	RT	RT	10	2.3E-1	9.8E-1	9.9E1
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of apoptosis</a>	RT	RT	12	2.9E-1	9.9E-1	1.0E2
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of programmed cell death</a>	RT	RT	12	3.0E-1	9.9E-1	1.0E2
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of cell death</a>	RT	RT	12	3.0E-1	9.9E-1	1.0E2
	Annotation Cluster 54	Enrichment Score: 0.54	G	RT	Count	P_Value	Benjamini	FDR
	<b>PIR_SUPERFAMILY</b>	PIRSF037037:Kelch-like_protein_gigaxonin	RT	RT	3	1.6E-1	1.0E0	8.7E1
	<b>UP_SEQ_FEATURE</b>	repeat:Kelch 4	RT	RT	4	1.6E-1	1.0E0	9.4E1
	<b>SP_PIR_KEYWORDS</b>	<a href="#">kelch repeat</a>	RT	RT	4	1.6E-1	7.5E-1	9.2E1
	<b>INTERPRO</b>	<a href="#">Kelch repeat type 1</a>	RT	RT	4	1.6E-1	1.0E0	9.3E1
	<b>INTERPRO</b>	<a href="#">Kelch-type beta propeller</a>	RT	RT	4	1.6E-1	1.0E0	9.3E1
	<b>UP_SEQ_FEATURE</b>	repeat:Kelch 3	RT	RT	4	1.7E-1	1.0E0	9.5E1
	<b>UP_SEQ_FEATURE</b>	repeat:Kelch 1	RT	RT	4	1.7E-1	1.0E0	9.5E1
	<b>UP_SEQ_FEATURE</b>	repeat:Kelch 2	RT	RT	4	1.7E-1	1.0E0	9.5E1
	<b>INTERPRO</b>	<a href="#">Kelch-like protein_gigaxonin</a>	RT	RT	3	2.0E-1	1.0E0	9.7E1
	<b>SMART</b>	<a href="#">Kelch</a>	RT	RT	4	2.1E-1	9.7E-1	9.4E1
	<b>UP_SEQ_FEATURE</b>	repeat:Kelch 6	RT	RT	3	2.8E-1	1.0E0	9.9E1
	<b>INTERPRO</b>	<a href="#">BTB/Kelch-associated</a>	RT	RT	3	3.1E-1	1.0E0	1.0E2
	<b>UP_SEQ_FEATURE</b>	repeat:Kelch 5	RT	RT	3	3.8E-1	1.0E0	1.0E2
	<b>INTERPRO</b>	<a href="#">BTB/POZ</a>	RT	RT	4	4.8E-1	1.0E0	1.0E2
	<b>INTERPRO</b>	<a href="#">Kelch related</a>	RT	RT	3	4.8E-1	1.0E0	1.0E2
	<b>INTERPRO</b>	<a href="#">BTB/POZ-like</a>	RT	RT	4	7.1E-1	1.0E0	1.0E2
	<b>INTERPRO</b>	<a href="#">BTB/POZ fold</a>	RT	RT	4	7.1E-1	1.0E0	1.0E2
	<b>UP_SEQ_FEATURE</b>	domain:BTB	RT	RT	3	7.8E-1	1.0E0	1.0E2
	<b>SMART</b>	<a href="#">BTB</a>	RT	RT	4	7.8E-1	1.0E0	1.0E2
	Annotation Cluster 55	Enrichment Score: 0.5	G	RT	Count	P_Value	Benjamini	FDR
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of cell migration</a>	RT	RT	4	2.9E-1	9.9E-1	1.0E2
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of cell motion</a>	RT	RT	4	3.4E-1	9.9E-1	1.0E2
	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of locomotion</a>	RT	RT	4	3.4E-1	9.9E-1	1.0E2
	Annotation Cluster 56	Enrichment Score: 0.49	G	RT	Count	P_Value	Benjamini	FDR
	<b>INTERPRO</b>	<a href="#">Zinc finger_PHD-finger</a>	RT	RT	4	2.5E-1	1.0E0	9.9E1
	<b>INTERPRO</b>	<a href="#">Zinc finger_PHD-type</a>	RT	RT	4	2.8E-1	1.0E0	9.9E1
	<b>UP_SEQ_FEATURE</b>	zinc finger region:PHD-type	RT	RT	3	2.8E-1	1.0E0	9.9E1
	<b>SMART</b>	<a href="#">PHD</a>	RT	RT	4	3.4E-1	9.8E-1	9.9E1
	<b>INTERPRO</b>	<a href="#">Zinc finger_PHD-type_conserved site</a>	RT	RT	3	5.7E-1	1.0E0	1.0E2
	Annotation Cluster 57	Enrichment Score: 0.47	G	RT	Count	P_Value	Benjamini	FDR
	<b>KEGG_PATHWAY</b>	<a href="#">GnRH signaling pathway</a>	RT	RT	4	2.5E-1	6.9E-1	9.6E1
	<b>KEGG_PATHWAY</b>	<a href="#">Glioma</a>	RT	RT	3	3.0E-1	7.3E-1	9.8E1
	<b>KEGG_PATHWAY</b>	<a href="#">Melanogenesis</a>	RT	RT	3	5.2E-1	8.6E-1	1.0E2
	Annotation Cluster 58	Enrichment Score: 0.47	G	RT	Count	P_Value	Benjamini	FDR
	<b>INTERPRO</b>	<a href="#">Zinc finger_C2H2-like</a>	RT	RT	20	2.7E-1	1.0E0	9.9E1
	<b>INTERPRO</b>	<a href="#">Zinc finger_C2H2-type</a>	RT	RT	19	3.3E-1	1.0E0	1.0E2
	<b>SMART</b>	<a href="#">ZnF_C2H2</a>	RT	RT	20	4.5E-1	9.9E-1	1.0E2
	Annotation Cluster 59	Enrichment Score: 0.47	G	RT	Count	P_Value	Benjamini	FDR

	Annotation Cluster 1	Enrichment Score: 6.89	G	RT	Count	P_Value	Benjamini	FDR
□	UP_SEQ_FEATURE	short sequence motif:Effector region	RT	RT	4	2.9E-1	1.0E0	1.0E2
□	INTERPRO	Ras GTPase	RT	RT	5	2.9E-1	1.0E0	9.9E1
□	INTERPRO	Ras	RT	RT	4	4.7E-1	1.0E0	1.0E2
	Annotation Cluster 60	Enrichment Score: 0.46	G	RT	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	regulation of cell migration	RT	RT	6	2.8E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	regulation of locomotion	RT	RT	6	3.8E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	regulation of cell motion	RT	RT	6	3.8E-1	9.9E-1	1.0E2
	Annotation Cluster 61	Enrichment Score: 0.45	G	RT	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	phosphate metabolic process	RT	RT	24	3.0E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	phosphorus metabolic process	RT	RT	24	3.0E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	phosphorylation	RT	RT	18	5.0E-1	1.0E0	1.0E2
	Annotation Cluster 62	Enrichment Score: 0.43	G	RT	Count	P_Value	Benjamini	FDR
□	KEGG_PATHWAY	Homologous recombination	RT	RT	3	8.5E-2	6.7E-1	6.4E1
□	GOTERM_BP_FAT	M phase of meiotic cell cycle	RT	RT	3	6.1E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	meiosis	RT	RT	3	6.1E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	meiotic cell cycle	RT	RT	3	6.2E-1	1.0E0	1.0E2
	Annotation Cluster 63	Enrichment Score: 0.42	G	RT	Count	P_Value	Benjamini	FDR
□	SP_PIR_KEYWORDS	dioxygenase	RT	RT	3	3.7E-1	9.0E-1	1.0E2
□	GOTERM_MF_FAT	oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen	RT	RT	3	3.8E-1	9.8E-1	1.0E2
□	GOTERM_MF_FAT	oxidoreductase activity, acting on single donors with incorporation of molecular oxygen	RT	RT	3	3.8E-1	9.8E-1	1.0E2
	Annotation Cluster 64	Enrichment Score: 0.42	G	RT	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	regulation of kinase activity	RT	RT	10	3.3E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	regulation of transferase activity	RT	RT	10	3.8E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	regulation of protein kinase activity	RT	RT	9	4.4E-1	9.9E-1	1.0E2
	Annotation Cluster 65	Enrichment Score: 0.41	G	RT	Count	P_Value	Benjamini	FDR
□	UP_SEQ_FEATURE	nucleotide phosphate-binding region:ATP	RT	RT	25	1.4E-1	1.0E0	9.2E1
□	SP_PIR_KEYWORDS	atp-binding	RT	RT	30	3.0E-1	8.6E-1	9.9E1
□	GOTERM_MF_FAT	ATP binding	RT	RT	32	3.9E-1	9.8E-1	1.0E2
□	GOTERM_MF_FAT	adenyl ribonucleotide binding	RT	RT	32	4.2E-1	9.8E-1	1.0E2
□	GOTERM_MF_FAT	adenyl nucleotide binding	RT	RT	32	5.5E-1	9.9E-1	1.0E2
□	GOTERM_MF_FAT	purine nucleoside binding	RT	RT	32	5.8E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	nucleoside binding	RT	RT	32	6.0E-1	1.0E0	1.0E2
	Annotation Cluster 66	Enrichment Score: 0.38	G	RT	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	regulation of nuclear division	RT	RT	3	3.3E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	regulation of mitosis	RT	RT	3	3.3E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	regulation of cell cycle process	RT	RT	3	6.9E-1	1.0E0	1.0E2
	Annotation Cluster 67	Enrichment Score: 0.37	G	RT	Count	P_Value	Benjamini	FDR
□	KEGG_PATHWAY	Fructose and mannose metabolism	RT	RT	3	1.2E-1	6.7E-1	7.6E1
□	SP_PIR_KEYWORDS	glycolysis	RT	RT	3	2.1E-1	7.8E-1	9.6E1
□	GOTERM_BP_FAT	glycolysis	RT	RT	3	2.6E-1	9.9E-1	9.9E1
□	KEGG_PATHWAY	Glycolysis / Gluconeogenesis	RT	RT	3	2.8E-1	7.1E-1	9.8E1
□	GOTERM_BP_FAT	glucose catabolic process	RT	RT	3	3.4E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	hexose catabolic process	RT	RT	3	4.3E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	monosaccharide catabolic process	RT	RT	3	4.4E-1	9.9E-1	1.0E2
□	GOTERM_BP_FAT	alcohol catabolic process	RT	RT	3	5.1E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	cellular carbohydrate catabolic process	RT	RT	3	5.3E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	glucose metabolic process	RT	RT	4	6.2E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	carbohydrate catabolic process	RT	RT	3	6.7E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	monosaccharide metabolic process	RT	RT	5	6.9E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	hexose metabolic process	RT	RT	4	7.7E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	generation of precursor metabolites and energy	RT	RT	5	9.0E-1	1.0E0	1.0E2
	Annotation Cluster 68	Enrichment Score: 0.35	G	RT	Count	P_Value	Benjamini	FDR

	Annotation Cluster 1	Enrichment Score: 6.89	G		Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of intracellular transport</a>	RT		4	1.9E-1	9.8E-1	9.7E1
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of intracellular protein transport</a>	RT		3	3.0E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of nucleocytoplasmic transport</a>	RT		3	3.4E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of protein transport</a>	RT		3	6.9E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of establishment of protein localization</a>	RT		3	7.2E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of protein localization</a>	RT		3	7.9E-1	1.0E0	1.0E2
	Annotation Cluster 69	Enrichment Score: 0.35	G		Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of cellular response to stress</a>	RT		4	3.7E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of JNK cascade</a>	RT		3	4.0E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of stress-activated protein kinase signaling pathway</a>	RT		3	4.3E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of MAPKKK cascade</a>	RT		3	6.7E-1	1.0E0	1.0E2
	Annotation Cluster 70	Enrichment Score: 0.34	G		Count	P_Value	Benjamini	FDR
□	<b>INTERPRO</b>	<a href="#">Peptidase C19, ubiquitin carboxyl-terminal hydrolase 2</a>	RT		3	3.5E-1	1.0E0	1.0E2
□	<b>GOTERM_MF_FAT</b>	<a href="#">ubiquitin thiolesterase activity</a>	RT		3	4.4E-1	9.9E-1	1.0E2
□	<b>GOTERM_MF_FAT</b>	<a href="#">thioester hydrolase activity</a>	RT		3	6.0E-1	1.0E0	1.0E2
	Annotation Cluster 71	Enrichment Score: 0.34	G		Count	P_Value	Benjamini	FDR
□	<b>INTERPRO</b>	<a href="#">RNA recognition motif, RNP-1</a>	RT		6	4.3E-1	1.0E0	1.0E2
□	<b>INTERPRO</b>	<a href="#">Nucleotide-binding, alpha-beta plait</a>	RT		6	4.3E-1	1.0E0	1.0E2
□	<b>SMART</b>	<a href="#">RRM</a>	RT		6	5.3E-1	1.0E0	1.0E2
	Annotation Cluster 72	Enrichment Score: 0.33	G		Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">macromolecular complex assembly</a>	RT		16	4.2E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">protein complex biogenesis</a>	RT		12	4.9E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">protein complex assembly</a>	RT		12	4.9E-1	1.0E0	1.0E2
	Annotation Cluster 73	Enrichment Score: 0.33	G		Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process</a>	RT		13	3.9E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of nitrogen compound metabolic process</a>	RT		13	4.0E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of macromolecule biosynthetic process</a>	RT		13	4.8E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of gene expression</a>	RT		12	4.9E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of transcription</a>	RT		11	5.0E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of cellular biosynthetic process</a>	RT		13	5.0E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of biosynthetic process</a>	RT		13	5.4E-1	1.0E0	1.0E2
	Annotation Cluster 74	Enrichment Score: 0.3	G		Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">immune response-activating signal transduction</a>	RT		3	3.0E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">activation of immune response</a>	RT		4	3.1E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">immune response-regulating signal transduction</a>	RT		3	3.3E-1	9.9E-1	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of immune response</a>	RT		4	5.9E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of response to stimulus</a>	RT		5	7.3E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of immune system process</a>	RT		5	7.4E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">immune effector process</a>	RT		3	7.7E-1	1.0E0	1.0E2
	Annotation Cluster 75	Enrichment Score: 0.3	G		Count	P_Value	Benjamini	FDR
□	<b>INTERPRO</b>	<a href="#">Tetratricopeptide repeat</a>	RT		4	4.2E-1	1.0E0	1.0E2
□	<b>INTERPRO</b>	<a href="#">Tetratricopeptide region</a>	RT		4	4.5E-1	1.0E0	1.0E2
□	<b>SMART</b>	<a href="#">TPR</a>	RT		4	5.0E-1	1.0E0	1.0E2
□	<b>UP_SEQ_FEATURE</b>	repeat:TPR 3	RT		4	5.2E-1	1.0E0	1.0E2
□	<b>UP_SEQ_FEATURE</b>	repeat:TPR 2	RT		4	5.8E-1	1.0E0	1.0E2
□	<b>UP_SEQ_FEATURE</b>	repeat:TPR 1	RT		4	5.8E-1	1.0E0	1.0E2
	Annotation Cluster 76	Enrichment Score: 0.3	G		Count	P_Value	Benjamini	FDR
□	<b>GOTERM_BP_FAT</b>	<a href="#">cellular protein localization</a>	RT		10	4.9E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">cellular macromolecule localization</a>	RT		10	4.9E-1	1.0E0	1.0E2
□	<b>GOTERM_BP_FAT</b>	<a href="#">intracellular protein transport</a>	RT		9	5.3E-1	1.0E0	1.0E2

	Annotation Cluster 1	Enrichment Score: 6.89	G		Count	P_Value	Benjamini	FDR
	Annotation Cluster 77	Enrichment Score: 0.29	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of caspase activity</a>	RT		3	4.9E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of endopeptidase activity</a>	RT		3	5.1E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of peptidase activity</a>	RT		3	5.4E-1	1.0E0	1.0E2
	Annotation Cluster 78	Enrichment Score: 0.28	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of RNA metabolic process</a>	RT		9	4.9E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of transcription from RNA polymerase II promoter</a>	RT		7	4.9E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">negative regulation of transcription, DNA-dependent</a>	RT		8	6.2E-1	1.0E0	1.0E2
	Annotation Cluster 79	Enrichment Score: 0.27	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">in utero embryonic development</a>	RT		6	3.1E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">chordate embryonic development</a>	RT		7	7.0E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">embryonic development ending in birth or egg hatching</a>	RT		7	7.0E-1	1.0E0	1.0E2
	Annotation Cluster 80	Enrichment Score: 0.27	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of defense response</a>	RT		3	4.5E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of cytokine biosynthetic process</a>	RT		3	4.6E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">regulation of cytokine production</a>	RT		4	7.3E-1	1.0E0	1.0E2
	Annotation Cluster 81	Enrichment Score: 0.27	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">limb morphogenesis</a>	RT		4	3.4E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">appendage morphogenesis</a>	RT		4	3.4E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">appendage development</a>	RT		4	3.7E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">limb development</a>	RT		4	3.7E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">embryonic appendage morphogenesis</a>	RT		3	5.5E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">embryonic limb morphogenesis</a>	RT		3	5.5E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">lung development</a>	RT		3	6.2E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">respiratory tube development</a>	RT		3	6.3E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">respiratory system development</a>	RT		3	6.6E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">tube development</a>	RT		3	9.5E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">embryonic morphogenesis</a>	RT		4	9.6E-1	1.0E0	1.0E2
	Annotation Cluster 82	Enrichment Score: 0.26	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>UP_SEQ_FEATURE</b>	<a href="#">repeat:LRR 4</a>	RT		7	3.8E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>UP_SEQ_FEATURE</b>	<a href="#">repeat:LRR 3</a>	RT		7	5.5E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>UP_SEQ_FEATURE</b>	<a href="#">repeat:LRR 1</a>	RT		7	6.1E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>UP_SEQ_FEATURE</b>	<a href="#">repeat:LRR 2</a>	RT		7	6.1E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>SP_PIR_KEYWORDS</b>	<a href="#">leucine-rich repeat</a>	RT		7	6.1E-1	9.7E-1	1.0E2
	Annotation Cluster 83	Enrichment Score: 0.25	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">nuclear import</a>	RT		4	2.8E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">protein import into nucleus</a>	RT		3	5.4E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">protein localization in nucleus</a>	RT		3	5.9E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">protein import</a>	RT		3	7.6E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">protein localization in organelle</a>	RT		3	8.1E-1	1.0E0	1.0E2
	Annotation Cluster 84	Enrichment Score: 0.24	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>KEGG_PATHWAY</b>	<a href="#">Spliceosome</a>	RT		4	3.8E-1	7.8E-1	1.0E2
<input type="checkbox"/>	<b>SP_PIR_KEYWORDS</b>	<a href="#">Spliceosome</a>	RT		3	6.9E-1	9.8E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_CC_FAT</b>	<a href="#">spliceosome</a>	RT		3	7.1E-1	9.9E-1	1.0E2
	Annotation Cluster 85	Enrichment Score: 0.23	G		Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">cell projection morphogenesis</a>	RT		7	4.1E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">cell part morphogenesis</a>	RT		7	4.5E-1	9.9E-1	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">cell projection organization</a>	RT		9	5.1E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">cellular component morphogenesis</a>	RT		9	5.9E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">cell morphogenesis</a>	RT		8	6.2E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">neuron development</a>	RT		6	8.4E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">neuron differentiation</a>	RT		7	9.0E-1	1.0E0	1.0E2
	Annotation Cluster 86	Enrichment Score: 0.22	G		Count	P_Value	Benjamini	FDR

Annotation Cluster 1	Enrichment Score: 6.89	G	RT	Count	P_Value	Benjamini	FDR	
GOTERM_BP_FAT	<a href="#">cellular ion homeostasis</a>	RT	■	9	5.3E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">cellular chemical homeostasis</a>	RT	■	9	5.5E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">ion homeostasis</a>	RT	■	9	6.3E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">chemical homeostasis</a>	RT	■	10	7.5E-1	1.0E0	1.0E2	
Annotation Cluster 87		Enrichment Score: 0.22	G	RT	Count	P_Value	Benjamini	FDR
GOTERM_BP_FAT	<a href="#">purine ribonucleotide biosynthetic process</a>	RT	■	4	4.4E-1	9.9E-1	1.0E2	
GOTERM_BP_FAT	<a href="#">ribonucleotide biosynthetic process</a>	RT	■	4	4.8E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">nucleoside triphosphate metabolic process</a>	RT	■	4	5.2E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">nucleotide biosynthetic process</a>	RT	■	5	5.5E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">purine ribonucleotide metabolic process</a>	RT	■	4	5.5E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">ATP biosynthetic process</a>	RT	■	3	5.6E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">nucleobase_nucleoside and nucleotide biosynthetic process</a>	RT	■	5	5.8E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">nucleobase_nucleoside_nucleotide and nucleic acid biosynthetic process</a>	RT	■	5	5.8E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">ribonucleotide metabolic process</a>	RT	■	4	6.0E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">purine nucleotide biosynthetic process</a>	RT	■	4	6.0E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">purine ribonucleoside triphosphate biosynthetic process</a>	RT	■	3	6.1E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">ribonucleoside triphosphate biosynthetic process</a>	RT	■	3	6.2E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">purine nucleoside triphosphate biosynthetic process</a>	RT	■	3	6.2E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">nucleoside triphosphate biosynthetic process</a>	RT	■	3	6.3E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">ATP metabolic process</a>	RT	■	3	6.5E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">purine ribonucleoside triphosphate metabolic process</a>	RT	■	3	7.1E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">ribonucleoside triphosphate metabolic process</a>	RT	■	3	7.1E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">purine nucleoside triphosphate metabolic process</a>	RT	■	3	7.3E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">purine nucleotide metabolic process</a>	RT	■	4	7.5E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">nitrogen compound biosynthetic process</a>	RT	■	6	8.1E-1	1.0E0	1.0E2	
Annotation Cluster 88		Enrichment Score: 0.2	G	RT	Count	P_Value	Benjamini	FDR
GOTERM_BP_FAT	<a href="#">leukocyte activation</a>	RT	■	6	5.7E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">lymphocyte activation</a>	RT	■	5	6.0E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">cell activation</a>	RT	■	6	7.2E-1	1.0E0	1.0E2	
Annotation Cluster 89		Enrichment Score: 0.16	G	RT	Count	P_Value	Benjamini	FDR
INTERPRO	<a href="#">EF-HAND 1</a>	RT	■	5	6.5E-1	1.0E0	1.0E2	
UP_SEQ_FEATURE	calcium-binding region:2	RT	■	3	6.7E-1	1.0E0	1.0E2	
UP_SEQ_FEATURE	domain:EF-hand 2	RT	■	4	7.0E-1	1.0E0	1.0E2	
UP_SEQ_FEATURE	domain:EF-hand 1	RT	■	4	7.0E-1	1.0E0	1.0E2	
UP_SEQ_FEATURE	calcium-binding region:1	RT	■	3	7.2E-1	1.0E0	1.0E2	
Annotation Cluster 90		Enrichment Score: 0.16	G	RT	Count	P_Value	Benjamini	FDR
GOTERM_CC_FAT	<a href="#">focal adhesion</a>	RT	■	3	5.8E-1	9.7E-1	1.0E2	
GOTERM_CC_FAT	<a href="#">cell-substrate adherens junction</a>	RT	■	3	6.0E-1	9.7E-1	1.0E2	
GOTERM_CC_FAT	<a href="#">cell-substrate junction</a>	RT	■	3	6.3E-1	9.8E-1	1.0E2	
GOTERM_CC_FAT	<a href="#">basolateral plasma membrane</a>	RT	■	4	7.4E-1	9.9E-1	1.0E2	
GOTERM_CC_FAT	<a href="#">adherens junction</a>	RT	■	3	7.9E-1	9.9E-1	1.0E2	
GOTERM_CC_FAT	<a href="#">anchoring junction</a>	RT	■	3	8.4E-1	1.0E0	1.0E2	
Annotation Cluster 91		Enrichment Score: 0.16	G	RT	Count	P_Value	Benjamini	FDR
UP_SEQ_FEATURE	repeat:LRR 6	RT	■	5	6.0E-1	1.0E0	1.0E2	
UP_SEQ_FEATURE	repeat:LRR 5	RT	■	5	6.8E-1	1.0E0	1.0E2	
INTERPRO	<a href="#">Leucine-rich repeat</a>	RT	■	4	8.1E-1	1.0E0	1.0E2	
Annotation Cluster 92		Enrichment Score: 0.16	G	RT	Count	P_Value	Benjamini	FDR
GOTERM_BP_FAT	<a href="#">angiogenesis</a>	RT	■	4	6.0E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">blood vessel morphogenesis</a>	RT	■	5	6.5E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">blood vessel development</a>	RT	■	5	7.6E-1	1.0E0	1.0E2	
GOTERM_BP_FAT	<a href="#">vasculature development</a>	RT	■	5	7.7E-1	1.0E0	1.0E2	

Annotation Cluster 1		Enrichment Score: 6.89		G			Count	P_Value	Benjamini	FDR
Annotation Cluster 93		Enrichment Score: 0.15		G			Count	P_Value	Benjamini	FDR
	GOTERM_BP_FAT	<a href="#">axonogenesis</a>	RT				5	5.8E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">cell morphogenesis involved in neuron differentiation</a>	RT				5	6.4E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">neuron projection morphogenesis</a>	RT				5	6.5E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">cell morphogenesis involved in differentiation</a>	RT				5	7.5E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">neuron projection development</a>	RT				5	7.9E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">neuron development</a>	RT				6	8.4E-1	1.0E0	1.0E2
	Annotation Cluster 94		Enrichment Score: 0.15	G			Count	P_Value	Benjamini	FDR
	GOTERM_BP_FAT	<a href="#">taxi</a>	RT				4	6.5E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">chemotaxis</a>	RT				4	6.5E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">locomotory behavior</a>	RT				5	8.3E-1	1.0E0	1.0E2
	Annotation Cluster 95		Enrichment Score: 0.13	G			Count	P_Value	Benjamini	FDR
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 13</a>	RT				5	5.7E-1	1.0E0	1.0E2
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 14</a>	RT				4	6.1E-1	1.0E0	1.0E2
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 12</a>	RT				5	7.4E-1	1.0E0	1.0E2
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 11</a>	RT				5	8.4E-1	1.0E0	1.0E2
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 9</a>	RT				6	8.7E-1	1.0E0	1.0E2
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 10</a>	RT				5	9.0E-1	1.0E0	1.0E2
	Annotation Cluster 96		Enrichment Score: 0.12	G			Count	P_Value	Benjamini	FDR
	GOTERM_BP_FAT	<a href="#">regulation of Ras GTPase activity</a>	RT				3	6.4E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">regulation of GTPase activity</a>	RT				3	7.3E-1	1.0E0	1.0E2
	GOTERM_MF_FAT	<a href="#">small GTPase regulator activity</a>	RT				4	9.1E-1	1.0E0	1.0E2
	Annotation Cluster 97		Enrichment Score: 0.12	G			Count	P_Value	Benjamini	FDR
	GOTERM_BP_FAT	<a href="#">positive regulation of nitrogen compound metabolic process</a>	RT				14	5.9E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">positive regulation of macromolecule biosynthetic process</a>	RT				13	7.2E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">positive regulation of cellular biosynthetic process</a>	RT				13	7.8E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">positive regulation of biosynthetic process</a>	RT				13	7.9E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">positive regulation of transcription</a>	RT				10	8.4E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">positive regulation of gene expression</a>	RT				10	8.6E-1	1.0E0	1.0E2
	Annotation Cluster 98		Enrichment Score: 0.12	G			Count	P_Value	Benjamini	FDR
	UP_SEQ_FEATURE	<a href="#">domain:PDZ</a>	RT				3	6.4E-1	1.0E0	1.0E2
	INTERPRO	<a href="#">PDZ/DHR/GLGF</a>	RT				3	8.1E-1	1.0E0	1.0E2
	SMART	<a href="#">PDZ</a>	RT				3	8.6E-1	1.0E0	1.0E2
	Annotation Cluster 99		Enrichment Score: 0.11	G			Count	P_Value	Benjamini	FDR
	GOTERM_BP_FAT	<a href="#">cellular di-, tri-valent inorganic cation homeostasis</a>	RT				5	7.0E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">di-, tri-valent inorganic cation homeostasis</a>	RT				5	7.4E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">cellular calcium ion homeostasis</a>	RT				4	7.4E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">calcium ion homeostasis</a>	RT				4	7.6E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">cellular metal ion homeostasis</a>	RT				4	7.8E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">cellular cation homeostasis</a>	RT				5	7.8E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">metal ion homeostasis</a>	RT				4	8.1E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">cation homeostasis</a>	RT				5	8.5E-1	1.0E0	1.0E2
	Annotation Cluster 100		Enrichment Score: 0.11	G			Count	P_Value	Benjamini	FDR
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 4</a>	RT				11	7.1E-1	1.0E0	1.0E2
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 5</a>	RT				10	7.4E-1	1.0E0	1.0E2
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 2</a>	RT				11	7.7E-1	1.0E0	1.0E2
	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 3</a>	RT				11	7.9E-1	1.0E0	1.0E2
	INTERPRO	<a href="#">Zinc finger, C2H2-type/integrase, DNA-binding</a>	RT				10	8.9E-1	1.0E0	1.0E2
	Annotation Cluster 101		Enrichment Score: 0.1	G			Count	P_Value	Benjamini	FDR
	GOTERM_BP_FAT	<a href="#">hemopoiesis</a>	RT				5	7.3E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">hemopoietic or lymphoid organ development</a>	RT				5	8.0E-1	1.0E0	1.0E2
	GOTERM_BP_FAT	<a href="#">immune system development</a>	RT				5	8.3E-1	1.0E0	1.0E2

	Annotation Cluster 1	Enrichment Score: 6.89	G	Count	P_Value	Benjamini	FDR
	Annotation Cluster 102	Enrichment Score: 0.1	G	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	<a href="#">positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process</a>	RT	13	6.6E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">positive regulation of transcription, DNA-dependent</a>	RT	9	7.9E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">positive regulation of transcription from RNA polymerase II promoter</a>	RT	7	7.9E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">positive regulation of RNA metabolic process</a>	RT	9	7.9E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">positive regulation of transcription</a>	RT	10	8.4E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">positive regulation of gene expression</a>	RT	10	8.6E-1	1.0E0	1.0E2
	Annotation Cluster 103	Enrichment Score: 0.1	G	Count	P_Value	Benjamini	FDR
□	INTERPRO	<a href="#">Leucine-rich repeat, typical subtype</a>	RT	3	7.5E-1	1.0E0	1.0E2
□	SMART	<a href="#">LRR_TYP</a>	RT	3	8.0E-1	1.0E0	1.0E2
□	INTERPRO	<a href="#">Leucine-rich repeat</a>	RT	4	8.1E-1	1.0E0	1.0E2
	Annotation Cluster 104	Enrichment Score: 0.1	G	Count	P_Value	Benjamini	FDR
□	GOTERM_MF_FAT	<a href="#">voltage-gated channel activity</a>	RT	4	7.5E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">voltage-gated ion channel activity</a>	RT	4	7.5E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">voltage-gated cation channel activity</a>	RT	3	7.9E-1	1.0E0	1.0E2
□	SP_PIR_KEYWORDS	<a href="#">voltage-gated channel</a>	RT	3	8.0E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">alkali metal ion binding</a>	RT	3	9.4E-1	1.0E0	1.0E2
	Annotation Cluster 105	Enrichment Score: 0.07	G	Count	P_Value	Benjamini	FDR
□	SP_PIR_KEYWORDS	<a href="#">ionic channel</a>	RT	6	7.5E-1	9.9E-1	1.0E2
□	GOTERM_MF_FAT	<a href="#">metal ion transmembrane transporter activity</a>	RT	6	7.8E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">cation channel activity</a>	RT	5	8.0E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">gated channel activity</a>	RT	5	8.7E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">ion channel activity</a>	RT	6	8.8E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">substrate specific channel activity</a>	RT	6	9.0E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">channel activity</a>	RT	6	9.1E-1	1.0E0	1.0E2
□	GOTERM_MF_FAT	<a href="#">passive transmembrane transporter activity</a>	RT	6	9.2E-1	1.0E0	1.0E2
	Annotation Cluster 106	Enrichment Score: 0.07	G	Count	P_Value	Benjamini	FDR
□	UP_SEQ_FEATURE	<a href="#">domain:KRAB</a>	RT	6	7.9E-1	1.0E0	1.0E2
□	INTERPRO	<a href="#">Krueppel-associated box</a>	RT	6	8.5E-1	1.0E0	1.0E2
□	SMART	<a href="#">KRAB</a>	RT	6	9.1E-1	1.0E0	1.0E2
	Annotation Cluster 107	Enrichment Score: 0.07	G	Count	P_Value	Benjamini	FDR
□	INTERPRO	<a href="#">EGF</a>	RT	3	7.3E-1	1.0E0	1.0E2
□	INTERPRO	<a href="#">EGF-like, type_3</a>	RT	4	7.6E-1	1.0E0	1.0E2
□	SP_PIR_KEYWORDS	<a href="#">egf-like domain</a>	RT	4	8.3E-1	1.0E0	1.0E2
□	INTERPRO	<a href="#">EGF-like</a>	RT	3	9.2E-1	1.0E0	1.0E2
□	INTERPRO	<a href="#">EGF-like region, conserved site</a>	RT	4	9.4E-1	1.0E0	1.0E2
□	SMART	<a href="#">EGF</a>	RT	3	9.5E-1	1.0E0	1.0E2
	Annotation Cluster 108	Enrichment Score: 0.07	G	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	<a href="#">nuclear division</a>	RT	4	8.4E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">mitosis</a>	RT	4	8.4E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">M phase of mitotic cell cycle</a>	RT	4	8.5E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">organelle fission</a>	RT	4	8.6E-1	1.0E0	1.0E2
□	SP_PIR_KEYWORDS	<a href="#">mitosis</a>	RT	3	8.8E-1	1.0E0	1.0E2
	Annotation Cluster 109	Enrichment Score: 0.06	G	Count	P_Value	Benjamini	FDR
□	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 8</a>	RT	7	8.4E-1	1.0E0	1.0E2
□	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 6</a>	RT	8	8.5E-1	1.0E0	1.0E2
□	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 9</a>	RT	6	8.7E-1	1.0E0	1.0E2
□	UP_SEQ_FEATURE	<a href="#">zinc finger region:C2H2-type 7</a>	RT	7	8.9E-1	1.0E0	1.0E2
	Annotation Cluster 110	Enrichment Score: 0.06	G	Count	P_Value	Benjamini	FDR
□	GOTERM_BP_FAT	<a href="#">male gamete generation</a>	RT	6	7.8E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">spermatogenesis</a>	RT	6	7.8E-1	1.0E0	1.0E2
□	GOTERM_BP_FAT	<a href="#">gamete generation</a>	RT	6	9.2E-1	1.0E0	1.0E2

	Annotation Cluster 1	Enrichment Score: 6.89	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">sexual reproduction</a>			7	9.2E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">multicellular organism reproduction</a>			7	9.4E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">reproductive process in a multicellular organism</a>			7	9.4E-1	1.0E0	1.0E2
	Annotation Cluster 111	Enrichment Score: 0.05	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">response to nutrient</a>			3	7.9E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">response to nutrient levels</a>			3	9.2E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">response to extracellular stimulus</a>			3	9.5E-1	1.0E0	1.0E2
	Annotation Cluster 112	Enrichment Score: 0.05	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of kinase activity</a>			4	8.7E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of transferase activity</a>			4	8.8E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of protein kinase activity</a>			3	9.5E-1	1.0E0	1.0E2
	Annotation Cluster 113	Enrichment Score: 0.04	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>UP_SEQ_FEATURE</b>	<a href="#">domain:PH</a>			4	8.5E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>INTERPRO</b>	<a href="#">Pleckstrin homology</a>			4	9.2E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>SMART</b>	<a href="#">PH</a>			4	9.5E-1	1.0E0	1.0E2
	Annotation Cluster 114	Enrichment Score: 0.04	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">visual perception</a>			4	8.3E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">sensory perception of light stimulus</a>			4	8.3E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>SP_PIR_KEYWORDS</b>	<a href="#">sensory transduction</a>			3	1.0E0	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">sensory perception</a>			5	1.0E0	1.0E0	1.0E2
	Annotation Cluster 115	Enrichment Score: 0.04	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of protein metabolic process</a>			4	8.9E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of protein modification process</a>			3	9.1E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_BP_FAT</b>	<a href="#">positive regulation of cellular protein metabolic process</a>			3	9.6E-1	1.0E0	1.0E2
	Annotation Cluster 116	Enrichment Score: 0.04	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>INTERPRO</b>	<a href="#">Immunoglobulin</a>			4	7.8E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>INTERPRO</b>	<a href="#">Immunoglobulin subtype</a>			3	9.9E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>SMART</b>	<a href="#">IG</a>			3	1.0E0	1.0E0	1.0E2
	Annotation Cluster 117	Enrichment Score: 0.03	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>SP_PIR_KEYWORDS</b>	<a href="#">sh3 domain</a>			3	9.2E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>INTERPRO</b>	<a href="#">Src homology-3 domain</a>			3	9.3E-1	1.0E0	1.0E2
<input type="checkbox"/>	<b>SMART</b>	<a href="#">SH3</a>			3	9.6E-1	1.0E0	1.0E2
	Annotation Cluster 118	Enrichment Score: 0	G	RT	Count	P_Value	Benjamini	FDR
<input type="checkbox"/>	<b>GOTERM_CC_FAT</b>	<a href="#">intrinsic to membrane</a>			82	1.0E0	1.0E0	1.0E2
<input type="checkbox"/>	<b>GOTERM_CC_FAT</b>	<a href="#">integral to membrane</a>			77	1.0E0	1.0E0	1.0E2
<input type="checkbox"/>	<b>SP_PIR_KEYWORDS</b>	<a href="#">transmembrane</a>			71	1.0E0	1.0E0	1.0E2
<input type="checkbox"/>	<b>UP_SEQ_FEATURE</b>	<a href="#">transmembrane region</a>			70	1.0E0	1.0E0	1.0E2

609 terms were not clustered.

Please cite [Nature Protocols 2009; 4\(1\):44 & Genome Biology 2003; 4\(5\):P3](#) within any publication that makes use of any methods inspired by DAVID.



[Term of Service](#) | [Contact Us](#) | [Site Map](#)



# National Institute of Allergy and Infectious Disease

The Database for Annotation, Visualization and Integrated Discovery

## Gene Report

44 record(s)

[Help and Manual](#) [Download File](#)

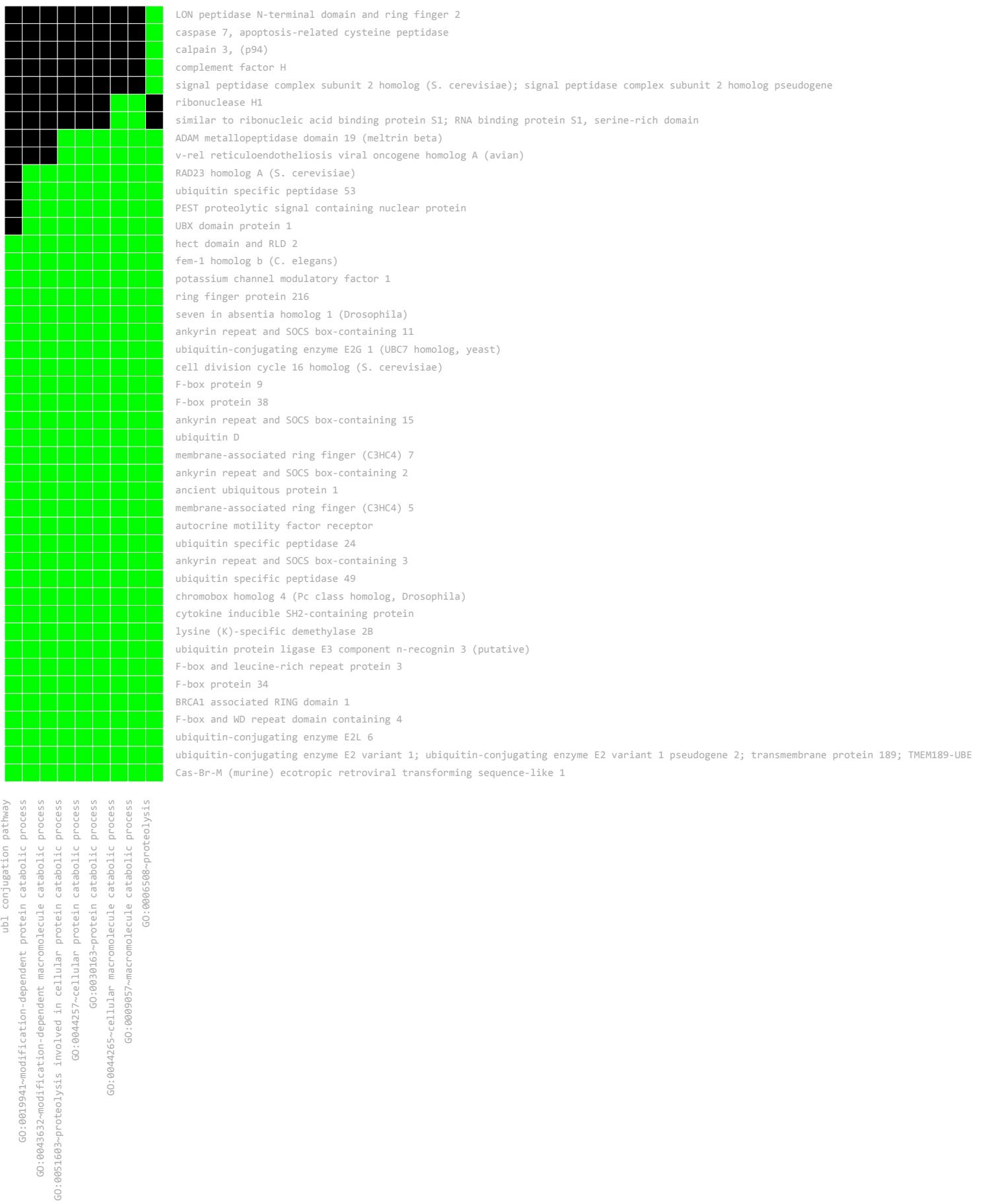
ID	GENE NAME	Related Genes	Species
ADAM metallopeptidase domain 19 (meltrin beta)	<a href="#">ADAM metallopeptidase domain 19 (meltrin beta)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
BRCA1 associated RING domain 1	<a href="#">BRCA1 associated RING domain 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1	<a href="#">Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
F-box and WD repeat domain containing 4	<a href="#">F-box and WD repeat domain containing 4</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
F-box and leucine-rich repeat protein 3	<a href="#">F-box and leucine-rich repeat protein 3</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
F-box protein 34	<a href="#">F-box protein 34</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
F-box protein 38	<a href="#">F-box protein 38</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
F-box protein 9	<a href="#">F-box protein 9</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
LON peptidase N-terminal domain and ring finger 2	<a href="#">LON peptidase N-terminal domain and ring finger 2</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
PEST proteolytic signal containing nuclear protein	<a href="#">PEST proteolytic signal containing nuclear protein</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
RAD23 homolog A (S. cerevisiae)	<a href="#">RAD23 homolog A (S. cerevisiae)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
UBX domain protein 1	<a href="#">UBX domain protein 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ancient ubiquitous protein 1	<a href="#">ancient ubiquitous protein 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ankyrin repeat and SOCS box-containing 11	<a href="#">ankyrin repeat and SOCS box-containing 11</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ankyrin repeat and SOCS box-containing 15	<a href="#">ankyrin repeat and SOCS box-containing 15</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ankyrin repeat and SOCS box-containing 2	<a href="#">ankyrin repeat and SOCS box-containing 2</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ankyrin repeat and SOCS box-containing 3	<a href="#">ankyrin repeat and SOCS box-containing 3</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
autocrine motility factor receptor	<a href="#">autocrine motility factor receptor</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
calpain 3, (p94)	<a href="#">calpain 3, (p94)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
caspase 7, apoptosis-related cysteine peptidase	<a href="#">caspase 7, apoptosis-related cysteine peptidase</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
cell division cycle 16 homolog (S. cerevisiae)	<a href="#">cell division cycle 16 homolog (S. cerevisiae)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
chromobox homolog 4 (Pc class homolog, Drosophila)	<a href="#">chromobox homolog 4 (Pc class homolog, Drosophila)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
complement factor H	<a href="#">complement factor H</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
cytokine inducible SH2-containing protein	<a href="#">cytokine inducible SH2-containing protein</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
fem-1 homolog b (C. elegans)	<a href="#">fem-1 homolog b (C. elegans)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
hect domain and RLD 2	<a href="#">hect domain and RLD 2</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
lysine (K)-specific demethylase 2B	<a href="#">lysine (K)-specific demethylase 2B</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
membrane-associated ring finger (C3HC4) 5	<a href="#">membrane-associated ring finger (C3HC4) 5</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
membrane-associated ring finger (C3HC4) 7	<a href="#">membrane-associated ring finger (C3HC4) 7</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
potassium channel modulatory factor 1	<a href="#">potassium channel modulatory factor 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ribonuclease H1	<a href="#">ribonuclease H1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ring finger protein 216	<a href="#">ring finger protein 216</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
seven in absentia homolog 1 (Drosophila)	<a href="#">seven in absentia homolog 1 (Drosophila)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
signal peptidase complex subunit 2 homolog (S. cerevisiae); signal peptidase complex subunit 2 homolog pseudogene	<a href="#">signal peptidase complex subunit 2 homolog (S. cerevisiae); signal peptidase complex subunit 2 homolog pseudogene</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
similar to ribonucleic acid binding protein S1; RNA binding protein S1, serine-rich domain	<a href="#">similar to ribonucleic acid binding protein S1; RNA binding protein S1, serine-rich domain</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ubiquitin D	<a href="#">ubiquitin D</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ubiquitin protein ligase E3 component n-recognin 3 (putative)	<a href="#">ubiquitin protein ligase E3 component n-recognin 3 (putative)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ubiquitin specific peptidase 24	<a href="#">ubiquitin specific peptidase 24</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ubiquitin specific peptidase 49	<a href="#">ubiquitin specific peptidase 49</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>

ID	GENE NAME	Related Genes	Species
ubiquitin specific peptidase 53	<a href="#">ubiquitin specific peptidase 53</a>	RG	<a href="#">Homo sapiens</a>
ubiquitin-conjugating enzyme E2 variant 1; ubiquitin-conjugating enzyme E2 variant 1 pseudogene 2; transmembrane protein 189; TMEM189-UBE2V1 readthrough transcript	<a href="#">ubiquitin-conjugating enzyme E2 variant 1; ubiquitin-conjugating enzyme E2 variant 1 pseudogene 2; transmembrane protein 189; TMEM189-UBE2V1 readthrough transcript</a>	RG	<a href="#">Homo sapiens</a>
ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)	<a href="#">ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)</a>	RG	<a href="#">Homo sapiens</a>
ubiquitin-conjugating enzyme E2L 6	<a href="#">ubiquitin-conjugating enzyme E2L 6</a>	RG	<a href="#">Homo sapiens</a>
v-rel reticuloendotheliosis viral oncogene homolog A (avian)	<a href="#">v-rel reticuloendotheliosis viral oncogene homolog A (avian)</a>	RG	<a href="#">Homo sapiens</a>

Please cite [Nature Protocols 2009; 4\(1\):44](#) & [Genome Biology 2003; 4\(5\):P3](#) within any publication that makes use of any methods inspired by DAVID.



[Term of Service](#) | [Contact Us](#) | [Site Map](#)





# National Institute of Allergy and Infectious Disease

The Database for Annotation, Visualization and Integrated Discovery

## Gene Report

[Help and Manual](#)
**Current Gene List: List\_2**
**Current Background: Homo sapiens**
**391 DAVID IDs**
**14 record(s)**

ILLUMINA_ID	GENE NAME	Related Genes	Species
ILMN_1676241	<a href="#">BCL6 co-repressor</a>	RG	<a href="#">Homo sapiens</a>
ILMN_2074258	<a href="#">BRCA1 associated RING domain 1</a>	RG	<a href="#">Homo sapiens</a>
ILMN_2073732	<a href="#">Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1</a>	RG	<a href="#">Homo sapiens</a>
ILMN_1794187	<a href="#">F-box and leucine-rich repeat protein 3</a>	RG	<a href="#">Homo sapiens</a>
ILMN_1717063	<a href="#">F-box protein 9</a>	RG	<a href="#">Homo sapiens</a>
ILMN_1666258	<a href="#">autocrine motility factor receptor</a>	RG	<a href="#">Homo sapiens</a>
ILMN_1744239	<a href="#">fem-1 homolog b (C. elegans)</a>	RG	<a href="#">Homo sapiens</a>
ILMN_1813475	<a href="#">hect domain and RLD 2</a>	RG	<a href="#">Homo sapiens</a>
ILMN_2380566	<a href="#">seven in absentia homolog 1 (Drosophila)</a>	RG	<a href="#">Homo sapiens</a>
ILMN_2197659	<a href="#">solute carrier family 14 (urea transporter), member 1 (Kidd blood group)</a>	RG	<a href="#">Homo sapiens</a>
ILMN_2171640	<a href="#">ubiquitin protein ligase E3 component n-recognition 3 (putative)</a>	RG	<a href="#">Homo sapiens</a>
ILMN_2368713	<a href="#">ubiquitin-conjugating enzyme E2 variant 1; ubiquitin-conjugating enzyme E2 variant 1 pseudogene 2; transmembrane protein 189; TMEM189-UBE2V1 readthrough transcript</a>	RG	<a href="#">Homo sapiens</a>
ILMN_1814465	<a href="#">ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)</a>	RG	<a href="#">Homo sapiens</a>
ILMN_1769520	<a href="#">ubiquitin-conjugating enzyme E2L 6</a>	RG	<a href="#">Homo sapiens</a>

[\*\*Download File\*\*](#)

Please cite [Nature Protocols 2009; 4\(1\):44 & Genome Biology 2003; 4\(5\):P3](#) within any publication that makes use of any methods inspired by DAVID.


[Term of Service](#) | [Contact Us](#) | [Site Map](#)



## DAVID Bioinformatics Resources 6.7

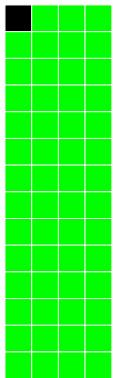
National Institute of Allergy and Infectious Diseases (NIAID), NIH

**\*\*\* Announcing DAVID 6.8 Beta with updated Knowledgebase ([more info](#)). You may explore the new version at [david-d.ncifcrf.gov](http://david-d.ncifcrf.gov). \*\*\* DAVID 6.8 w 6.7 will be available on our development site until at least January 15, 2017.**

### 2D View

[Help](#)

corresponding gene-term association positively reported     corresponding gene-term association not reported yet  
 [Download File](#)



ubiquitin-conjugating enzyme E2 variant 1; ubiquitin-conjugating enzyme E2 variant 1 pseudogene 2; transmembrane protein 189; TMEM189-UBE2V1 readthrough  
fem-1 homolog b (C. elegans)  
hect domain and RLD 2  
Cas-Br-M (murine) ecotropic retroviral transforming sequence-like 1  
autocrine motility factor receptor  
seven in absentia homolog 1 (Drosophila)  
ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog, yeast)  
ubiquitin protein ligase E3 component n-recognin 3 (putative)  
F-box protein 9  
F-box and leucine-rich repeat protein 3  
BRCA1 associated RING domain 1  
BCL6 co-repressor  
solute carrier family 14 (urea transporter), member 1 (Kidd blood group)  
ubiquitin-conjugating enzyme E2L 6

GO:0004842~ubiquitin-protein ligase activity  
GO:0019877~small conjugating protein ligase activity  
GO:0016811~acid-amino acid ligase activity  
GO:0016879~ligase activity, forming carbon-nitrogen bonds



# National Institute of Allergy and Infectious Disease

The Database for Annotation, Visualization and Integrated Discovery

## Gene Report

[Help and Manual](#)
**Current Gene List: List\_2**
**Current Background: Homo sapiens**
**391 DAVID IDs**
**56 record(s)**

ILLUMINA_ID	GENE NAME	Related Genes	Species
ILMN_1741572	<a href="#">A kinase (PRKA) anchor protein 8</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1797341	<a href="#">AT rich interactive domain 1A (SWI-like)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2278235	<a href="#">C-terminal binding protein 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1746257	<a href="#">DAZ associated protein 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1735461	<a href="#">DEAD (Asp-Glu-Ala-Asp) box polypeptide 21</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1795218	<a href="#">DEAH (Asp-Glu-Ala-His) box polypeptide 30</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1761828	<a href="#">E2F transcription factor 4, p107/p130-binding</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1768127	<a href="#">EBNA1 binding protein 2</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1674024	<a href="#">IKAROS family zinc finger 5 (Pegasus)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1709483	<a href="#">MRE11 meiotic recombination 11 homolog A (S. cerevisiae)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2322986	<a href="#">MYC induced nuclear antigen</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2363027	<a href="#">RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2158336	<a href="#">SH3-domain GRB2-like endophilin B2</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1678729	<a href="#">SIL1 homolog, endoplasmic reticulum chaperone (S. cerevisiae)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1703427	<a href="#">SON DNA binding protein</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1737535	<a href="#">TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kDa</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1697420	<a href="#">TERF1 (TRF1)-interacting nuclear factor 2</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1711566	<a href="#">TIMP metallopeptidase inhibitor 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2130838	<a href="#">UTP11-like, U3 small nucleolar ribonucleoprotein, (yeast)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2105983	<a href="#">X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1670878	<a href="#">YTH domain containing 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1770892	<a href="#">YY1 transcription factor</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1679797	<a href="#">adenosine deaminase, RNA-specific, B1 (RED1 homolog rat)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1666385	<a href="#">calmodulin 3 (phosphorylase kinase, delta); calmodulin 2 (phosphorylase kinase, delta); calmodulin 1 (phosphorylase kinase, delta)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2362681	<a href="#">carboxylesterase 2 (intestine, liver)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2362974	<a href="#">caspase 7, apoptosis-related cysteine peptidase</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2256765	<a href="#">cell division cycle 16 homolog (S. cerevisiae)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1692390	<a href="#">cyclin T1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2313074	<a href="#">death effector domain containing</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1660663, ILMN_1664560	<a href="#">dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2312719	<a href="#">exosome component 9</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2188374	<a href="#">exportin, tRNA (nuclear export receptor for tRNAs); similar to Exportin-T (tRNA exportin) (Exportin(tRNA))</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1761113	<a href="#">guanine nucleotide binding protein-like 2 (nucleolar)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2324056	<a href="#">guanine nucleotide binding protein-like 3 (nucleolar)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2220283	<a href="#">heterogeneous nuclear ribonucleoprotein A1-like 3; similar to heterogeneous nuclear ribonucleoprotein A1; heterogeneous nuclear ribonucleoprotein A1 pseudogene 2; heterogeneous nuclear ribonucleoprotein A1; heterogeneous nuclear ribonucleoprotein A1 pseudogene</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2231242	<a href="#">high-mobility group box 1; high-mobility group box 1-like 10</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1772455	<a href="#">histone deacetylase 3</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1728521	<a href="#">histone deacetylase 7</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2317463	<a href="#">integrator complex subunit 1</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1679483	<a href="#">integrator complex subunit 10</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1725169	<a href="#">integrator complex subunit 12</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1794260	<a href="#">lysine (K)-specific demethylase 2B</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1706539	<a href="#">lysine (K)-specific demethylase 3B</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2389347	<a href="#">nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1771835	<a href="#">nucleoporin 54kDa</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1710844	<a href="#">poly (ADP-ribose) polymerase family, member 10</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1659411	<a href="#">polymerase (RNA) II (DNA directed) polypeptide C, 33kDa</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1719303	<a href="#">prolyl 4-hydroxylase, beta polypeptide</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1668778	<a href="#">protein kinase, AMP-activated, alpha 2 catalytic subunit</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1701855	<a href="#">protein phosphatase 1, catalytic subunit, gamma isoform</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1761175	<a href="#">ribosomal protein S6 kinase, 70kDa, polypeptide 2</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>

[\*\*Download File\*\*](#)

ILLUMINA_ID	GENE NAME	Related Genes	Species
ILMN_2375386	<a href="#">similar to ribonucleic acid binding protein S1; RNA binding protein S1, serine-rich domain</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_2175075	<a href="#">splicing factor, arginine/serine-rich 4</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1660368	<a href="#">transformation/transcription domain-associated protein</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1705266	<a href="#">v-rel reticuloendotheliosis viral oncogene homolog A (avian)</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>
ILMN_1661636	<a href="#">zinc finger, MYM-type 2</a>	<a href="#">RG</a>	<a href="#">Homo sapiens</a>

Please cite [Nature Protocols 2009; 4\(1\):44](#) & [Genome Biology 2003; 4\(5\):P3](#) within any publication that makes use of any methods inspired by DAVID.



[Term of Service](#) | [Contact Us](#) | [Site Map](#)

		TIMP metallopeptidase inhibitor 1
		DEAH (Asp-Glu-Ala-His) box polypeptide 30
		carboxylesterase 2 (intestine, liver)
		prolyl 4-hydroxylase, beta polypeptide
		SIL1 homolog, endoplasmic reticulum chaperone ( <i>S. cerevisiae</i> )
		RAD51 homolog (RecA homolog, <i>E. coli</i> ) ( <i>S. cerevisiae</i> )
		MRE11 meiotic recombination 11 homolog A ( <i>S. cerevisiae</i> )
		C-terminal binding protein 1
		IKAROS family zinc finger 5 (Pegasus)
		guanine nucleotide binding protein-like 2 (nucleolar)
		transformation/transcription domain-associated protein
		nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)
		YY1 transcription factor
		histone deacetylase 3
		protein phosphatase 1, catalytic subunit, gamma isoform
		exportin, tRNA (nuclear export receptor for tRNAs); similar to Exportin-T (tRNA exportin) (Exportin(tRNA))
		nucleoporin 54kDa
		lysine (K)-specific demethylase 3B
		DEAD (Asp-Glu-Ala-Asp) box polypeptide 21
		AT rich interactive domain 1A (SWI-like)
		caspase 7, apoptosis-related cysteine peptidase
		SON DNA binding protein
		polymerase (RNA) II (DNA directed) polypeptide C, 33kDa
		high-mobility group box 1; high-mobility group box 1-like 10
		v-rel reticuloendotheliosis viral oncogene homolog A (avian)
		histone deacetylase 7
		integrator complex subunit 12
		E2F transcription factor 4, p107/p130-binding
		splicing factor, arginine/serine-rich 4
		integrator complex subunit 10
		ribosomal protein S6 kinase, 70kDa, polypeptide 2
		cyclin T1
		calmodulin 3 (phosphorylase kinase, delta); calmodulin 2 (phosphorylase kinase, delta); calmodulin 1 (phosphorylase kinase, delta)
		A kinase (PRKA) anchor protein 8
		adenosine deaminase, RNA-specific, B1 (RED1 homolog rat)
		TERF1 (TRF1)-interacting nuclear factor 2
		EBNA1 binding protein 2
		exosome component 9
		cell division cycle 16 homolog ( <i>S. cerevisiae</i> )
		UTP11-like, U3 small nucleolar ribonucleoprotein, (yeast)
		similar to ribonucleic acid binding protein S1; RNA binding protein S1, serine-rich domain
		YTH domain containing 1
		TAF4 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 135kDa
		heterogeneous nuclear ribonucleoprotein A1-like 3; similar to heterogeneous nuclear ribonucleoprotein A1; heterogeneous nuclear ribonucleoprotein A1 pse
		integrator complex subunit 1
		poly (ADP-ribose) polymerase family, member 10
		DAZ associated protein 1
		X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)
		MYC induced nuclear antigen
		lysine (K)-specific demethylase 2B
		dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A
		death effector domain containing
		guanine nucleotide binding protein-like 3 (nucleolar)
		zinc finger, MYM-type 2
		protein kinase, AMP-activated, alpha 2 catalytic subunit
		SH3-domain GRB2-like endophilin B2

GO:0031981~nuclear lumen  
 GO:0070013~intracellular organelle lumen  
 GO:0042233~organelle lumen  
 GO:0031974~membrane-enclosed lumen